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TITLE: Apparatus and method for connection
distance-classified links using dsl
service modem

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PATENT-FAMILY:

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ABSTRACTED-PUB-NO: KR2002038240A

BASIC-ABSTRACT: NOVELTY - An apparatus and method for connection distance-classified links using a DSL(Digital Subscriber Line) service modem is provided to offer a mobile communication service with a higher quality to users by connecting the distance-classified links of the DSL in a long distance as well as a short distance.

DETAILED DESCRIPTION - A subscriber-side DSL modem(100) has a CPU(110) for receiving an initialization profile to output an ADSL(Asymmetric Digital Subscriber Line) reset signal, and outputting an IDSL(ISDN

Digital Subscriber Line) reset signal and simultaneously outputting a switching signal when a data speed is low or a link is unloaded, and a subscriber-side ADSL block(120) for receiving the ADSL reset signal from the CPU(110) and being simultaneously initialized. The subscriber-side DSL modem(100) comprises a subscriber-side IDSL block(130) for receiving the IDSL reset signal from the CPU(110) and being simultaneously initialized, and a line switch unit(140) for maintaining an ADSL mode when the switching signal is not inputted from the CPU(110) and switching the ADSL mode to an IDSL mode when the switching signal is inputted from the CPU(110). A telephone office side DSL modem(200) has a switch unit(210) for maintaining the ADSL mode when the switching signal is not inputted and switching the ADSL mode to the IDSL mode when the switching signal is inputted, and a telephone office side ADSL block(220) for receiving test data and simultaneously outputting the test data to the subscriber-side ADSL block(120) at ADSL data speed. The telephone office side DSL modem(200) includes a telephone office side IDSL block(230) for performing a data communication with the subscriber-side IDSL block(130) at IDSL data speed, and a DSLAM(Digital Subscriber Line Access Multiplexing)(240) for maintaining the ADSL mode when the outputted test data have the ADSL transmission speed, and outputting the switching signal to the switch unit(210) when the outputted test data does not have the ADSL transmission speed for switching the ADSL mode into the IDSL mode.

CHOSEN-DRAWING: Dwg.1/10

TITLE-TERMS:

APPARATUS METHOD CONNECT DISTANCE CLASSIFY LINK SERVICE
MODEM

DERWENT-CLASS: W01

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